MAE
Department of Mechanical and Aerospace Engineering

GRADUATE PROGRAMS

Aerospace Engineering | Mechanical Engineering | Nuclear Engineering

THE OHIO STATE UNIVERSITY
COLLEGE OF ENGINEERING
STUDENT LIFE

There is more to graduate school than the pursuit of an advanced degree. Network and socialize with fellow graduate students from across the university. Interact with alumni to help learn what opportunities await you after you complete your degree with us. Engage in a challenging pursuit or give back to the community. Take care of yourself physically and emotionally. The university provides resources for the engagement and support of graduate and professional students. From housing to enriching experience inside and outside the classroom, you can find your home in this welcoming Buckeye community.

OPPORTUNITIES

The department provides diverse opportunities for graduate studies in fundamental and applied research in all areas of mechanical, aerospace and nuclear engineering. A focus on multidisciplinary, collaborative research fosters exchange of ideas and opportunity for addressing projects from a systems perspective.

Along with Ohio State’s Graduate School, the department is committed to effective recruitment, retention and support for all graduate students. Inherent in that commitment is the belief that diversity is critical to excellence in graduate education and research. And, at Ohio State, the welcoming atmosphere among graduate students goes beyond the classroom: the university boasts an array of campus groups and organizations for a range of interests.

LIVING IN COLUMBUS

Ohio State’s Columbus campus is a lovely, traditional campus located in the nation’s 14th largest city. With a metro population of more than 2 million, Columbus (the state’s capital) is the largest and fast-growing city in Ohio. It has a vibrant blend of arts and culture; inspired culinary, fashion, music and entertainment scenes; exciting collegiate and professional sports; and an open, entrepreneurial spirit. With a burgeoning downtown, lively urban districts and variety of neighborhoods, Columbus is a city that invites exploration.
TRANSFORMING FROM EXCELLENCE TO EMINENCE

The mission of the Department of Mechanical and Aerospace Engineering is the education of professionals in mechanical, aerospace and nuclear engineering, the dissemination of knowledge and technology and the development of innovative solutions to problems in these fields.

DEPARTMENT FACULTY AND RESEARCH

Faculty support graduate students’ research efforts by serving as advisors and mentors. The record of publications and patents by faculty and students demonstrates the broad scope of the programs and wide range of faculty expertise. The College of Engineering encourages innovation through interdisciplinary research. From medicine and materials to mobility and manufacturing, our faculty and student researchers are working to solve some of society’s most pressing challenges.

Many strong research partnerships exist, including with Ford Motor Company, Honda of Americas, Inc., Honeywell International Inc. and Pratt & Whitney; NASA Glenn Research Center, Air Force Research Laboratory, the Federal Aviation Administration and GE Aviation.

AREAS OF RESEARCH

Our faculty adhere to the philosophy that true innovation depends upon the cooperation of academia, industry, and government working together to advance the goals of science and technology. Department faculty members participate in the university-wide Institute for Materials Research and the NSF Nanoscience and Engineering Center for affordable Nanoengineering of Polymeric Biomedical Microdevices, and provide leadership to two ongoing multi-institutional Department of Defense Multidisciplinary University Research Initiatives in cryogenic Peltier cooling and plasma assisted combustion.

The department is home to over 50 faculty-directed research laboratories. Research activity happens across a wide variety of application areas, including advanced aerospace systems; advanced automotive systems; bioengineering; energy and environmental quality; design, materials and manufacturing; micro- and nanotechnology; nuclear science and engineering; and robotics, automation and autonomy.

I chose the mechanical engineering PhD program at The Ohio State University for its cutting-edge research programs. I have been blessed to work with a team of world-renowned scientists and wonderful staff who helped me navigate not only through the PhD program but also toward a life-long satisfying career.”

DUNG VU | MECHANICAL ENGINEERING
Doctoral Student Researcher
COMPETITIVE FUNDING
Fellowships and associateships are the primary sources of financial assistance provided to departmental graduate students. Approximately 80 percent of Ohio State graduate students are awarded fellowships or associateships. A service requirement related to teaching, research or administrative responsibilities is integral to associateships. Other sources of funding include research grants or employer continuing education programs.

Benefits included for fellowship and graduate associateship appointments:

- Paid tuition
- Monthly stipend
- Health insurance, including subsidy for partners, spouses and dependents
- Childcare
- Short-term absences and extended leaves of absence for personal and/or family illness, bereavement, childbirth and adoption

Applying to Ohio State: prospective graduate students must apply online at gpadmissions.osu.edu/apply/grad. Complete details about application, including admission criteria, supplemental requirements (transcripts, letters of reference, etc.) and other relevant information is available at mae.osu.edu/graduate/admissions. Deadlines: the deadline for students seeking consideration for fellowship funding is November 30.

Application deadlines:
- Autumn semester - Applications: December 1; Supplemental Materials: December 15
- Spring semester - Applications: September 15; Supplemental Materials: October 1

Applications must be complete before they will be reviewed for admission consideration.

FACILITIES AND LIBRARIES
The department’s $72.5 million building complex, the Peter L. and Clara M. Scott Laboratory, opened in 2006 and includes modern classrooms and high-quality space for research laboratories.

Additionally, an electronics and computer laboratories off working space and advanced software, while four machine shops and dedicated staff support research and student projects. Associated facilities include the Aerospace Researcher Center, Center for Automotive Research and Nuclear Reactor Lab, which is one of just 24 nuclear reactors on a college campus in the United States.

I chose to attend Ohio State because I wanted the benefits of a large research institution. The research connections at Ohio State have helped me to get not only an internship, but also a graduate fellowship at a national laboratory.”

KELLY MCCARY | NUCLEAR ENGINEERING
Doctoral Student Researcher

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**EMILY SANDT | NUCLEAR ENGINEERING**

*Doctoral Student Researcher*
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Learn more about the department's programs at mae.osu.edu.
More information and resources are available at gradsch.osu.edu, research.osu.edu and visit.osu.edu.